Introduction to



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AMSTERDAM

INTERNATIONAL
SOFTWARE DEVELOPMENT
CONFERENCE 2011

Conference: Oct. 13-14 / Training Oct. 15

Abstract

Apache Solr serves search requests at the enterprises and the largest companies around the world. Built on top of the topnotch Apache Lucene library, Solr makes indexing and searching integration into your applications straightforward. Solr provides faceted navigation, spell checking, highlighting, clustering, grouping, and other search features. Solr also scales query volume with replication and collection size with distributed capabilities. Solr can index rich documents such as PDF, Word, HTML, and other file types.

Come learn how you can get your content into Solr and integrate it into your applications!

About me...

LUCICION MAGINATION





http://lucene.apache.org/solr/



http://lucene.apache.org/

Solr

- Simple: easy to use
- Powerful: feature rich and scales
- Open Source
 - from the "Lucene people"
 - encapsulates Lucene best practices

Fire It Up

- cd example
- java -jar start.jar
- [cd example/exampledocs;
 - java -jar post.jar *.xml]

Indexing

- /update[/csv|/json|/extract]
- stream from local, remote, or POST data
- tutorial:
 - cd example/exampledocs
 - java -jar post.jar *.xml
 - Tip: java -jar post.jar -help

Indexing JSON

```
POST to /update/json
[
    {"id" : "1", "title" : "Doc One"},
    {"id" : "2", "title" : "Doc Two"}
]
```

Indexing CSV

```
curl http://localhost:8983/solr/update/csv
--data-binary @data.csv
-H 'Content-type:text/plain; charset=utf-8'
```

Indexing Rich Documents

```
http://localhost:8983/solr/update/extract
?stream.file=/path/to/file.doc
&stream.contentType=application/msword
&literal.id=ds1-file.doc"
```

Other conduits

- DataImportHandler (DIH)
- API's: SolrJ, RSolr, (py)solr(.py), etc
 - It's just data over HTTP
- "Enterprise"
 - LucidWorks: SharePoint, (split) crawling,
 S3, HDFS, etc; including access control

Searching

- http://localhost:8983/solr/select?q=*:*
- Typical looking Solr request http://localhost:8983/solr/select +
 - ?q=ipod
 - &facet=on
 - &facet.field=cat
 - &fq=cat:electronics
 - [&rows=10&start=20]
 - [&fl=id,name,price&sort=price asc]
 - [&wt=xml|json|csv|ruby|python|php|xslt|velocity&indent=on]
 - [&debugQuery=true]



/browse

Examples: Simple Spatial

Find:	ipod		Submit Query Reset
	Boost by Price cation Filter	Distance (KM): 1000	

Field Facets

cat

Electronics (3) Connector (2) Music (1)

manu_exact

Belkin (2) Apple Computer Inc. (1)

Query Facets

<u>Ipod</u> (3) <u>GB</u> (1)

Range Facets

price

<u>0.0 - 50.0</u> (2) <u>350.0 - 400.0</u> (1)

popularity

0 - 3 (2) 9 - 12 (1)

3 results found in 9 ms Page 1 of 1

iPod & iPod Mini USB 2.0 Cable More Like This

Price: \$11.50

Features: car power adapter for iPod, white

In Stock: false

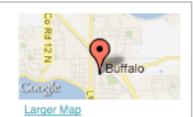
Geary Bivd Geary Bivd San Larger Map

Belkin Mobile Power Cord for iPod w/ Dock More Like This

Price: \$19.95

Features: car power adapter, white

In Stock: false



Apple 60 GB iPod with Video Playback Black More Like This

Price: \$399.00

Features: iTunes, Podcasts, Audiobooks Stores up to 15,000 songs, 25,000 photos, or 150 hours of video 2.5-inch, 320x240 color TFT LCD display with LED backlight Up to 20 hours of battery life Plays AAC, MP3, WAV, AIFF, Audible, Apple Lossless, H.264 video Notes, Calendar, Phone book, Hold button, Date display, Photo wallet, Built-in games, JPEG photo playback, Upgradeable firmware, USB 2.0 compatibility, Playback speed control, Rechargeable capability, Battery level indication

In Stock: true





"Heavy Committing"

http://www.apache.org/



lucidworks cloud

lucidworks search platform

lucid works enterprise

www.lucidimagination.com

Events



Presented by Lucid Imagination 17-18 October | Training 19-20 October | Conference http://2011.lucene-eurocon.org

